

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 (GOVERNOR RITCHIE HWY.) AND DOVER ROAD IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF AN ADDITIONAL LEFT TURN LANE ALONG SOUTHBOUND MD 2 (GOVERNOR RITCHIE HWY.). MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF MD 2. THE INTERSECTION WILL NOW OPERATE IN A NEMA FIVE-PHASE, FULLY-ACTUATED MODE WITH LEAD-LAG, EXCLUSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF MD 2.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

MR. JOE HORTY
UTILITY ENGINEER
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF - TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
CHIEF - SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 1 & 6	←G→	←G→	G	G	←R→	←R→	←R→	R	R	R	R	R
1 CHANGE	←Y→	←Y→	G	G	←R→	←R→	←R→	R	R	R	R	R
PHASE 2 & 6	←R→	←R→	G	G	←R→	←R→	←R→	G	G	R	R	R
6 CHANGE	←R→	←R→	Y	Y	←R→	←R→	←R→	Y	Y	R	R	R
PHASE 2 & 5	←R→	←R→	R	R	←G→	←G→	←G→	G	G	R	R	R
2 & 5 CHANGE	←R→	←R→	R	R	←Y→	←Y→	←Y→	Y	Y	R	R	R
PHASE 4	←R→	←R→	R	R	←R→	←R→	←R→	R	R	G	G	G
4 CHANGE	←R→	←R→	R	R	←R→	←R→	←R→	R	R	Y	Y	Y
FLASHING OPERATION	←FLR→	←FLR→	FLY	FLY	←FLR→	←FLR→	←FLR→	FLY	FLY	FLR	FLR	FLR

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
760 LF	5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
70 LF	24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
4 EA	WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING ARROW
21 EA	12 INCH LED SIGNAL HEAD SECTION
30 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
1410 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
2 EA	R3-SL (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R4-7(1) (18" X 30") SIGN - GROUND MOUNT
15 LF	4 IN. X 4 IN. WOOD SIGN SUPPORT

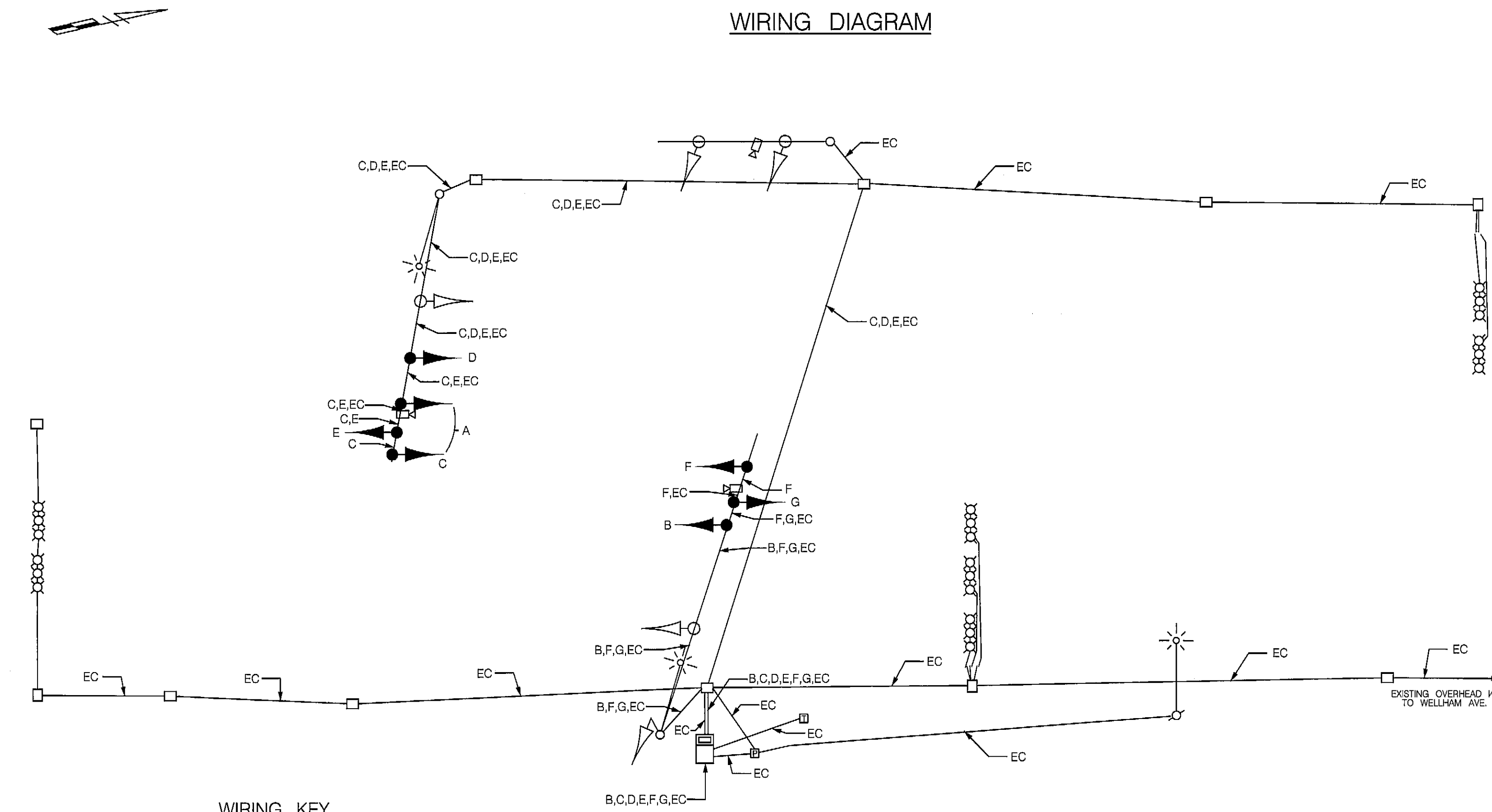
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



WIRING KEY

A	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B-G	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EC	EXISTING CABLE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 2 (GOVERNOR RITCHIE HWY.)
AND DOVER ROAD

GENERAL INFORMATION PLAN

SCALE NONE DATE 3-10-2010 CONTRACT NO. BW996M82

DESIGNED BY	J.K. SCHMID	COUNTY	ANNE ARUNDEL
DRAWN BY	J.K. SCHMID	LOGMILE	02000238.12
CHECKED BY	T. ZAYDEL	T.I.M.S. NO.	K-251
F.A.P. NO.	NA	TOD NO.	

DRAWING NO. TS-241E GI SHEET NO. 2 OF 2

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473

EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

FILE PATH: M:\2200\2278\Signal\MD 2 @ Dover.dgn
DATE: Wednesday, March 10, 2010 AT 03:48 PM